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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/507,040

02/16/2005

Frank Rottmann

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EXAMINER

DIEP, NHON THANH

ART UNIT

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2621

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/507,040	Applicant(s) ROTTMANN, FRANK	
	Examiner Nhon T. Diep	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 December 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 10-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 10-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 10-11 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kitamura, in view of Yeredor et al (US 7,436,887 B2).

As shown in Figure 36, Kitamura teaches system for tracking at least one object in a scene. The system includes obtaining a sequence of images from an image detector (Col 19 Lines 45-47, Col 24 Lines 7-14, Fig. 44). The system determines a movement of at least one object in the scene based on the sequence of images (Col 20 Lines 16-31, Fig. 39). Note, Kitamura teaches the determining of a sudden drop in speed (Col 20 Lines 30-31). Kitamura further teaches the obtaining of the different characteristics of the object in order to determine an abnormal condition (Col 20 Lines 43-60). The values are compared to a threshold to determine if an abnormality exists (Col 21 Lines 1-7). Kitamura then teaches the verifying of the object being at a standstill (Col 21 Lines 29-30). The system generates a signal when a stationary object is determined (Col 22 Lines 22-26). It is noted that Kitamura does not particularly disclose that starting a counter when the movement of the at least one object comes to a standstill; and enabling counting of the counter only if the at least one object continues to be in the standstill; and generating a signal when a counter value of the counter

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reaches a predetermined threshold value as specified in claim 10; and a signal triggers at least one of an audio alarm and visual alarm as specified in claim 11. Yeredor et al teaches an object tracking apparatus and method for the detection and tracking of dynamic and static objects, and the timing parameters definer component provides time settings information, such as the number of time units to be elapsed (threshold) before the generation of a trigger on a static object, and further more, the alarm indication may be provided visually to a screen or delivered via communication networks to officers located at the scene or to off-premises or via dry contact to an external device such as a siren, a bell, a flashing or revolving light. And, therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the system of Kitamura by starting a counter when the movement of the at least one object comes to a standstill; and enabling counting of the counter only if the at least one object continues to be in the standstill; and generating a signal when a counter value of the counter reaches a predetermined threshold value as taught by Yeredor et al. Doing so would help to prevent false alarm, and to provide an alarm indication to authorized personnel.

3. Claims 12-16, and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kitamura, in view of Yeredor et al (US 7,436,887 B2), and further in view of Baxter.

Kitamura further discloses the use of a reference image (Col 20 Lines 16-18). The reference image is further adapted onto multiple images as depicted in Figure 37 (claims 14, 15 and 20); and the gathering of information related to speed and position

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(Col 20 Lines 57-60). Kitamura is silent on providing the information as a list as specified in claims 12-13 and 18-19. Baxter teaches the use of a list to store position and time information in order to provide later analysis of the information, and when motion occurs again and a new center of mass location 80 is detected, it is always compared against the last value of each of the threads then in existence to determine which trajectory thread list 90 it will be placed in, and generally a new trajectory thread list 90 will be created when there are multiple center of mass locations 80 measured at any instant in time and will be ended when a center of mass location reaches an edge of a protected area as scanned by the optical detector 24 and then is no longer detected. (Col 6 Lines 1-36, Fig. 11). And, therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of the combination by creating a new list when motion occurs again, and new information of the list is always compared against the last value of the old list or it also would have been obvious to use at least one entry of the old list in the creation of the new list if there is no change between set of new data versus old data as taught by Baxter. Doing so would help to continue tracking objects while saving time.

Regarding to claim 16, which recites “wherein a time interval of at least half a second is provided between images selecting a length of a time interval between the sequences of images, the length being sufficiently long enough to capture a meaningful amount of object movement between images”. Since, motion video typically has 30 frames per second, and even in the case of intruder or object movement, the difference between two successive images (1/30 second) would not show any significant

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difference, and therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Kitamura, Yeredor et al and Baxter by comparing temporally separated images with sufficient time elapsed of 1/10 or 1/6, or even $\frac{1}{2}$ second between them in detecting motions as a matter trade-off between quality of the motion detection system versus the saving processing time by not comparing all images with the reference image.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a. Tserng (US 6,570,608) discloses

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhon T. Diep whose telephone number is 571-272-7328. The examiner can normally be reached on m-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ND

/Nhon T Diep/
Primary Examiner, Art Unit 2621